



# Annual Report 2012



UNIVERSITY OF COLOMBO  
**SCHOOL OF COMPUTING**

# UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

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# **UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING**

## ANNUAL REPORT AND ACCOUNTS FOR 2012

### VISION & MISSION

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#### **Vision Statement**

Create new knowledge, sustain a culture of critical inquiry and foster a spirit of service and commitment to the nation.

#### **Mission Statement**

Producing men and women of the highest technical competency with high ethical standards and social accountability, capable of creative, analytical and independent thinking, contributing to national development.

## DIRECTOR'S REVIEW

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As a centre of Higher Learning in Computing, the UCSC has continued to train students at undergraduate and postgraduate levels as well as those in the IT industry with the latest developments in this field. 738 internal undergraduates enrolled for the four degrees programmes via the UGC intake continued their studies at the UCSC, although new intake enrolment was postponed by the UGC due to the Z score issue. Beside 1267 science graduates were trained in use of IT in respective scientific domains and 2029 students were provided the opportunity to do the BIT degree as an external student. 158 students were enrolled for the master's degree while 10 enrolled for research degrees. From those who enrolled in previous years 392 completed degrees at undergraduate level and 158 at postgraduate level. Output produced from both undergraduate and postgraduate degree programmes increased by 11% and 65% respectively. UCSC also undertook to implement testing of English and IT at all universities and pilot test carried out for 81 students successfully in two universities.

To distinguish from other training institutes UCSC put a lot of emphasis on creating new knowledge through research. While securing three NRC grants and two NSF grant for research projects the staff published 59 conference and journal papers despite three months national level academic strike. UCSC also continued to carry out consultancy projects for the government ministries and others, including for an overseas university. Students continued to be successful at national and international events winning and/or gaining recognition at NBQSA, e-Swabhimani, World Summit Award and Google Summer Code. Staff continued to be involved in many external committees, boards and professional bodies as their contribution to the society, while students continued with their IT outreach programmes to rural areas targeting school children. UCSC also successfully organized their annual international conference attracting 182 participants including 20 foreign delegates. Three UCSC staff members were recognized by UGC and ICTA for their research and development activities.

Long due physical infrastructure development of the UCSC commenced in 2011 and first phase of this project was completed and a new lecture hall for 300 students was put in to use. Building extension work to strengthen research activities is expected to complete in 2013.

UCSC while continued to hold the most qualified computing staff in the country with 19 PhD holders further strengthen its lecturer pool to partially address the shortage of its Human Resources. Overseas staff exchange programme which was initiated in 2011 for the first time continued and discussions were held to implement the student exchange programme in 2013.

While continue to work on the curriculum development to align existing degree programmes with international standards, new postgraduate degree in Bioinformatics was launched and intakes for the new undergraduate degrees in Information Systems and Software Engineering were initiated.

## UCSC AT A GLANCE

		2010	2011	2012
<b>Education (Enrolled/Graduated)</b>				
Internal Undergraduates	All	739	737	738
	In	236	238	-
	Out	229	223	220
Science Undergraduates		1023	1160	1267
External Diploma	All	4281	4287	4166
	In	2514	2365	2029
	Out	361	576	654
External Higher Diploma	All	1863	2019	2390
	In	688	863	974
	Out	199	309	262
External Degree	All	1188	1293	1413
	In	403	442	476
	Out	140	129	172
Postgraduates	All	443	531	523
	In	177	143	158
	Out	89	94	156
Extension Programmes		935	678	528
<b>Research</b>				
Research (MPhil/PhD)	All	31/01	46/00	41/01
	In	06	13	10
	Out	-	1	3
Research Projects	All	06	05	05
	New	2	1	02
Publications		69	63	59
<b>Consultancy Projects</b>				
Local		25	14	12
Foreign		05	01	01
<b>Social Responsibility Programmes</b>		18	10	10

	2010	2011	2012	
<b>Governance</b>				
Permanent Academic Staff	All	34	36	35
	Prof	02	02	02
	PhD	18	18	19
Permanent Academic Support Staff	04	02	04	
Temporary Academic Staff (Instructors)	15	11	12	
Permanent Admin and Non-Ac Staff	35	35	34	
Contract Staff (including casual & trainee)	72	37	67	
Research/Project Staff	18	14	10	
<b>Finance</b>				
Annual Recurrent Expenditure (Millions SLR)	80	92	111	
Treasury Grant (Recurrent) (Millions SLR)- Act.	65	83	92	
Treasury Grant (Capital) (Millions SLR) – Actual	5	16	19	
Generated Income	123	159	194	
UCSC Contribution for UG (Millions SLR) (Generated %)	31 (25%)	22 (14%)	31 (16%)	
UCSC Budget (Millions SLR)	171	205	246	
Research/Project (Millions SLR)	94	6.2	5.6	
Cost per Employee (SLR '000s) per annum	457	578	670	
Cost per Student (SLR '000s) – Treasury	108	125	151	
<b>Infrastructure</b>				
Library Books	9,999	10,214	10,405	
Computers : staff	1:1	1:1	1:1	
Computers : students (General students)	1:4	1:4	1:4	
(Special students)	1:1	1:1	1:1	
Space Utilization (employee) (sq. m.)	6.99	9.42	9.42	
Space Utilization (student) (sq. m.)	1.89	1.90	2.32	

## OVERVIEW OF THE UCSC

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The University of Colombo School of Computing (UCSC) was established on 1st September, 2002 by merging the Institute of Computer Technology (ICT) and the Department of Computer Science (DCS), both of the University of Colombo, by an Order made under Section 24 A(1) of the Universities Act No. 16 of 1978 as last amended by Universities (Amendment) Act No.1 of 1995, as a Centre of Higher Learning for the purpose of providing, promoting and developing higher education in Computing, which now include Computer Science, Software Engineering, Information Technology and Information Systems. It is a Higher Educational Institution within the meaning of the Act. The UCSC Ordinance was Gazetted on 15th Nov 2002 (GZT NO. 1262/32) and Amended to include the Centre for Digital Forensics on 22 July 2011 (GZT NO. 1715/32).

### **A Brief History**

The teaching of Computing in the University of Colombo first started way back in 1967 by the setting up of the Statistical Unit as a separate unit of the Department of Mathematics. Later with the initial guidance of Professor V.K. Samaranyake, the statistical unit was enhanced as the Statistical Consultancy and Data Processing Service Centre. This had paved the way to many future developments. By 1985, this Centre had grown into the Department of Statistics and Computer Science (DSCS). The major function of this department was to conduct special degree programmes in Statistics and in Computer Science. The DSCS offered Computer Science specialization programme, producing just 40 students per batch, in no way sufficient to meet the growing demand in the field of Computer Science (CS).

In 1997, a batch of 50 students was taken directly to study Computer Science, through the University Grants Commission, however, by this time, it was realized by many that the Computer Science subdivision of the DSCS need to be expanded as a separate department to meet the growing demand in the field of Computer Science. As a result, in 2001, the DSCS was separated into two departments namely Department of Computer Science and Department of Statistics.

The Department of Computer Science identified its own limitations of operating in the restrictive framework of a Faculty and at the same time it understood the importance of having a strong industry relationship for exploiting future growth potential. The university understood the importance of a strategic merger between the industry focused Institute of Computer Technology (ICT) and the more theoretically oriented Department of Computer Science of the University of Colombo.

The ICT had a strong relationship with the industry at the same time a high institutional profile among foreign donor agencies. The ICT also enjoyed much more autonomy in their business operations making it easier for receiving large amounts of resources from Japan International Cooperation Agency (JICA), Swedish International Development Agency (Sida) and several other donors.

This merger gave birth to the University of Colombo School of Computing (UCSC) on 1<sup>st</sup> September 2002. Prof. V.K Samaranyake became the founder Director of the UCSC, whose proactive thinking set the path to achieve success in several succeeding endeavours of the UCSC. Through all this, the UCSC has been able to position itself as a Centre of Excellence in ICT in the university system of Sri Lanka.

## ORGANIZATION OF THE UCSC

The three departments and six Centres continued to plan and execute their programmes of activities for the current year too.

### Departments of the UCSC

For the undergraduate academic programme, government funding is directly received by the UCSC through the UGC. Money received is inadequate to carry out the planned activities for the year and hence some of the generated income is used for undergraduate academic activities. The UCSC has three academic departments and the academic staff is allocated to these departments based on their specialization and teaching expertise. Three department heads are assigned to look after the undergraduate, postgraduate and external & extension programmes respectively as none of them offer programmes of its own. The three departments are,

1. Computation & Intelligent Systems (CIS);
2. Communication & Media Technologies (CMT);
3. Information Systems Engineering (ISE).

### Centres of the UCSC

UCSC also performs many secondary activities. These activities are organized under six separate centres. Each centre has a coordinator who manages the day-to-day operations of the centre. The six centres are as follows:

1. Advanced Digital Multimedia Centre (ADMTC);
2. Computing Services Centre (CSC);
3. External Degrees Centre (EDC);
4. e-Learning Centre (e LC);
5. Professional Development Centre (PDC);
6. Centre for Digital Forensics (CDF).

## GOVERNANCE

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As laid down in the corporate plan, core areas of activity of the UCSC are *Education, Research, Consultancy* and *Social Responsibility*. Of these, Research has been recognized as the central pillar which sets the UCSC apart from the rest of the ICT Education sector, and which contributes in turn to the other three pillars. These pillars themselves are supported by two main sources; the Human and Physical Infrastructure/Resources and the Administrative/Financial services. In addition, all these aspects are held together and directed for optimal efficacy by a 'roof' of Good Governance.

### Management

Management of the UCSC is handled by the officers of the UCSC with the assistance of the heads of the departments and centre coordinators. Director chaired all UCSC Statutory and Selection Committees.

### Officers of the UCSC

**Director:** Prof GN Wikramanayake; **Deputy Director:** Prof ND Kodikara;



## Heads of the Departments of the UCSC

**CIS:** Mr GP Seneviratne; **CMT:** Mr GKA Dias; **ISE:** Dr DD Karunaratna;

## Centre Coordinators of the UCSC

**ADMTC:** Mr ST Nandasara; **CSC:** Mr. LP Jayasinghe; **EDC:** Mrs SP Ariyaratne; **eLC:** Dr KP Hewagamage; **PDC:** Dr SMKD Arunathilake; **CDF:** Mr KS Goonathilake.

## Authorities

The Authorities of the School are the Board of Management; Academic Syndicate; Boards of Study; Departments of Study and Centres.

## Board of Management

12 monthly meetings and 03 Special Meetings of the Board of Management were held during the year. The composition of the Board of Management is given below.

Director (Chairman); Deputy Director; Heads of Dept (CIS/CMT/ISE); **Nominee/Secretary, Ministry of Higher Education:** Mr Piyasena Ranepura; **Nominee/Ministry of Finance:** Mr R Uduwawala; **Dean, Faculty of Science:** Prof TR Ariyaratne; **Nominees of Council, UOC:** Mr C Maliyadda; Mr. Asoka Pathirage (till Mar), Mr. HMN Warakaulle (from Apr); **Nominees of Senate, UOC:** Prof KH Thennakoon; Prof. PSM Gunaratne; **Nominees of the UGC:** Mr S Mudalige; Deshamanya Mr MDD Pieris; **Representatives of the IT Industry:** Mr Jayantha De Silva (until May), Mr. DB Saparamadu (from Oct); Mr Mano Sekeram; **Nominees of Academic Syndicate, UCSC:** Dr DN Ranasinghe, Dr GDSP Wimalaratne, Dr MC Jayawardena; Former Director (Invited): Dr AR Weerasinghe.

Two Sub-Committees, the Finance & Management Committee and the Audit Committee assisted the Board of Management. The two committees held 02 and 04 meetings respectively each during the year. Composition of the two committees is given below.

## Finance and Management Committee

Director (Chairman); Deputy Director; Mr Piyasena Ranepura; Mr R Uduwawala; Prof TR Ariyaratne; Deshamanya Mr MDD Pieris.

## Audit Committee

Mr Sujeewa Mudalige (Chairman Finance Specialist); Deputy Director; Mr C Maliyadda; Mr Piyasena Ranepura; Mr R Uduwawala.

## Academic Syndicate

09 meetings of the Academic Syndicate were held during the year. The composition of the Academic Syndicate is given below.

Director; Deputy Director; Heads of Dept (CIS/ CMT/ISE); Centre Coordinators (ADMTC/CSC/EDC/eLC/PDC); **Nominee (Faculty of Science):** Prof RD Wijesekara; **Representatives/IT Industry:** Dr RAC Ranasinghe; Senior Academics (UCSC); **Two Teaching Staff:** Mr LP Jayasinghe; Mr. WMR Weerasuriya.

## Boards of Study

There are three boards of studies, namely IUD, RHD and EEP. They focus on Internal Undergraduate Degrees (IUD), Research and Higher Degrees (RHD) and External and Extension Programmes (EEP). The three boards had 8, 9 and 9 meetings respectively during the year.

## EDUCATION

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### Programmes and Students

UCSC offers a wide variety of programmes at different levels. Table 1 identifies the courses (programmes) conducted by the UCSC along with the students and staff involved. Note: Temporary and visiting staff included under non-academic staff.

Table 1: Type of Courses Offered

Course	Total Students	Total Academic Staff	Total non Academic Staff
Undergraduate and Postgraduate Programmes	1,124	48	90
Research and other Projects	42	16	10
Extension courses	528	06	49
External degree	5,700	36	10
Online	699	3	8
Other – Faculty of Science	1,267	27	1

### Undergraduate Education

Computing for undergraduates were first introduced way back in 1967 as part of Faculty of Science. UCSC continues to offer this opportunity for faculty of science 1267 students. Computing as a degree commenced in 1990. All together 2005 undergraduates are being trained at the UCSC. UCSC currently offers Computer Science (CS) degree for 486 students and Information and Communication Technology degree (ICT) for 251 students. Non-academic staff include 62 from UCSC, 20 visiting lecturers for undergraduate programmes and 8 visiting lecturers for postgraduate programme. Faculty of science courses include 9 only for their courses and 18 for combined classes.

#### Internal Degrees

UCSC continued to offer the two internal degree programmes in the field of CS and ICT. These two degree programmes are formulated to focus on different market segments in the IT industry and has a three and four year options. CS degree programme select students from A/L physical science stream while the ICT degree is open to all streams.

The *Bachelor of Computer Science* (BCSc) and the *Bachelor of Science in Computer Science* (BSc (CS)) degrees are designed to cater for the high demand of CS professionals worldwide. The BCSc Degree programme is a three year programme whereas the BSc (CS) is a four year programme.

The ICT Programme is designed to produce a new kind of Information systems (IS) professional to fill the gap between business requirements and technical solutions. This degree Programme is designed to produce this new breed of ICT professionals. The curriculum of this programme also emphasizes the importance of soft skills such as communication and teamwork. The three-year degree is named as the *Bachelor of Information and Communication Technology* (BICT), while the four-year degree is named as the *Bachelor of Science in Information and Communication Technology* (BSc (ICT)).

To make the degree programmes internationally accepted it was necessary to align our degree programmes according to internationally recognised ACM/IEEE guidelines. Several workshops on Curriculum Design

were conducted to finalise this process. In this process it was identified that the Information and Communication Technology (ICT) degree programme has to be aligned with the Information Systems stream of the ACM/IEEE. Thus approval was obtained from the UGC to change the ICT degree to Information Systems degree. As most graduates end up as software engineers it was required to introduce a Software Engineering degree. University approval to implement a Software Engineering stream for the Computer Science intake was also obtained. Accordingly UCSC will now be offering four computing degrees, namely: Computer Science, Software Engineering, Information Systems and Information Technology degrees. Among them the Software Engineering and Information Systems will be new degree programme for those entering universities from the 2012/13 intake.

The CS degree programme was redesigned to offer as 2+1 (3 year) and 2+2 (4 year) degrees instead of existing 3 year exist and 3+1 (4 year). New programme will contain a 4 year Software Engineering (SE) stream in addition to the existing 3 and 4 year CS exists. Changes are expected to be implemented from the 2012/13 intake.

Curriculum revision resulted in a name change from ICT to IS for which approval was obtained from the UGC. New 3 year degree will be called Bachelor of Information Systems (BIS) and the 4 year Bachelor of Science in Information Systems Engineering BSc (ISE). Implementation of the new curriculum is to take effect from the 2012/13 intake.

### Enrolment

The UCSC could not admit a new batch due to issues with the Z scores of the 2010 GCE (A/L) and UGC postponement of admissions of students to 2013. During the year the total registered students at the UCSC was 738 (Table 2). Due to UGC policy aptitude test was removed for the ICT programme despite objections from the UCSC. Request was made to reintroduce from next intake. New GCE (A/L) ICT subject was also considered as a possible course to enter the ICT programme of the UCSC.

Table 2: Internal Undergraduate Programmes

Course	Intake 2012	1st Year Students	2nd Year Students	3rd Year Students	4th Year Students	Total	No of Graduated
Bachelor of Computer Science	-	160	147	140	0	447	104
BSc in Computer Science	40	0	0	0	40	40	39
Bachelor of ICT	-	78	77	76	0	231	59
BSc in ICT	20	0	0	0	20	20	18
<b>UCSC Undergraduates</b>	<b>60</b>	<b>238</b>	<b>224</b>	<b>216</b>	<b>60</b>	<b>738</b>	<b>220</b>
BSc Faculty of Science	-	539	418	280	30	1267	-
<b>Internal Undergraduates</b>	<b>60</b>	<b>777</b>	<b>642</b>	<b>496</b>	<b>90</b>	<b>2005</b>	<b>220</b>

All courses are conducted in English Medium

### Visiting Staff

All the academic and academic support staff participated in delivering the internal undergraduate programmes. ICT degree programme consists of many courses that require external support. 17 persons were invited as visiting lecturers to conduct 13 courses of the ICT degree programme.

### Industrial Placement

PDC continued to keep a close liaison with the IT industry and for improvement of the academic programmes through industry partnership thereby enhancing the quality of the undergraduates. During the year PDC placed 214 undergraduates at 61 organisations for their 6 months training.

## **Student Activities**

Student activities are carried out through the student union mainly to promote cultural, ritual and recreation activities. Third year pass out students had their batch going down and juniors organized the student sports day. Students also held the Sinhala New Year Festival and Poson bakthee Gee. Students Freshers Welcome and Annual Vani Vizha events were also held. However, many other planned events were cancelled due to three month academic strike. Events organised for students by IEEE and Google was held at the UCSC. UCSC students also participated at Drupal workshop organised by Drupal Lanka.

## **Student Achievements**

UCSC continued to encourage students and staff to participate in national and international competitions. Over the last few years UCSC has won several open awards awarded by NBQSA, e-Swabhimani, APICTA and Manthan. Students have excelled at Imagine Cup and other events.

IEEEExtreme is a global challenge in which teams of IEEE student members compete in a 24-hour time span against each other to solve a set of programming problems. UCSC students first took part at this event in 2011 with 13 teams participating from the UCSC. The number of teams participated from the UCSC increased to 105 students in 35 teams in 2012 and the top UCSC team was placed 207 in the world.

Google Summer of Code is a global program that offers post-secondary student developers ages 18 and older stipends to write code for various open source software projects. 2011 saw the first instance of participation from the UCSC. This was continued in 2012 with one student successfully completed the program.

The World Summit Award (WSA) is a global activity to select and promote the world's best e-Content and most innovative ICT applications. UCSC students have been participating in this since 2010. In 2012 under e-Media & News category "TrafficMate" won under the WSA-mobile Winners Events 2012.

National Best Quality ICT Awards (NBQSA) organised by the BCS the Chartered Institute for IT - Sri Lanka section is held annually for Tertiary Student Projects since 2003. In 2012, Dinuni Fernando, Chandima Fernando, C. Pankajan, Sahan Udana, Dilini Asanga, Samitha Udalagama, Lumini Sahabandu and Lasantha Samarakoon, won Silver award for the "TrafficMate" project and R.M. Gihan B. Wijerathne won a merit award for "OWPS - Open Wave Propagation Simulator".

The 2012 inter-university statistics quiz competition for the Professor V.K. Samaranayake memorial trophy was won by a UCSC students team consists of five Computer Science students from Second and Third years.

University of Colombo School of Computing (UCSC) team comprising of three undergraduates, namely Pankajan Chanthirasegaran, Dinuni Fernando and Sanjaya Amarasinghe from the 3rd year Bachelor of Computer Science degree programme became the runner up at the Hackathon competition organised by Calcey Technologies. Student-teams from six universities (Moratuwa - CSE & IT, UCSC, APIIT, SLIIT, Kelaniya MIT) competed with each other to prove their software development skills.

Kavitha Talent Show organized by the Ministry of Higher Education under different categories. UCSC student was selected for the final round in the Electronic Media - Creative Television Broadcaster of the Year category.

## Sports

Ms. C.K. Waduge of UCSC was selected as the University of Colombo Women's Hockey captain.

## Graduation

Graduation ceremony was held for 220 students from 4 degree programmes. Students for the ICT degree programme are selected from any A/L stream. In Table 3 student performance by stream is also shown for these students.

Table 3: Performance of UCSC Graduates

Intake	First	Upper	Lower	Pass	TOTAL
BSc	1	2	9	92	104
BICT	0	4	10	45	59
BSc CS	11	18	10	0	39
BSc ICT	6	6	6	0	18
<b>TOTAL</b>	<b>18</b>	<b>30</b>	<b>47</b>	<b>137</b>	<b>220</b>

## Employability

217 (98.6%) of the 220 graduands responded to the employability questionnaire of them 71% were male. Among the students 201 (93%) were Sinhala, 11 (5%) were Tamil and 5 (2%) were Muslim. Majority of students 133 (61%) obtained general passes. 199 (92%) were employed while 6 (3%) were under employed and 10 (4%) unemployed.

Among the students 46 (22%) were earning a monthly salary of above Rs. 50k, while 29 (14%) between Rs. 40k-50k, 51 (25%) 30k-40k, 54 (26%) 20k-30k and 13 (6%) less than 20k. The median expected monthly salary was between Rs. 40k-50k and 48% employed were expecting above 50k. Most 82% worked in private sector, 5% public sector non-teaching, 3% self employed, 1% semi-government and 1% public sector teaching.

## Awards

Prof. V. K. Samaranyake Medal for the Most Outstanding Graduate of the UCSC was awarded to V. B. Wijesuriya. In the CS Degree Programme, three awards namely, Mohan Munasinghe Award for Computer Studies, David Peiris Group Gold Medal for Best Performance in Industrial Training and Virtusa Academic Excellence Award were awarded to Y. P. Gunawardana, M.V. Mathugama and M.S. Ruwanhewa respectively while CINTEC Award for the Best Computer Science Final Year Project was awarded to T.A.M.C. Tantriwatte and N. Wanigasekara. In the ICT Programme, S.R.B. Rajapakse, K.K.G Weerasekara, H.P.D. Jayathilake and W.K.A. Dharshani were awarded the IFS Academic Excellence Award for Best Performance in the Four Year Degree, Sampath Bank Award for the Best Final Year Project, David Peiris Group Gold Medal for Best Industrial Training and Motorola Academic Excellence Award for Best Performance in 3 year Degree respectively.

Attracting good students is our primary concern as it contributes towards the quality of the students we produce. Students enrolling for the undergraduate programme are selected centrally by the University Grant Commission (UGC). It is based on student preference. Currently most student's first choice is either Engineering or Medicine. Also most students were unaware of the UCSC degree programmes and career opportunities in the computing field. Thus UCSC continued to organize workshops over two days for potential new admissions which were well attended. So far those shown interest have not had the opportunity to enrol for the internal programme.

## Postgraduate Education

Postgraduate programmes were first offered at Colombo in 1986 through postgraduate diploma programmes. UCSC now offers three masters degree programmes and research degrees have 523 students (Table 4). Master of Computer Science offered since 1990 had 190 students. Information Technology programme offered since 2000 had 178 students. Information Security programme offered since 2011 had 51 students. New Bioinformatics programme jointly conducted with the IBMBB commenced with 12 students. 42 research students are carrying out research leading to MPhil/PhD.

Table 4: Postgraduate Degree Programmes

Course	Intake 2012	1 <sup>st</sup> Year Students	2 <sup>nd</sup> Year Students	3 <sup>rd</sup> Year Students	4 <sup>th</sup> Year Students	Total	No of Graduated
Master of Computer Science	68	60	80	31	19	190	48
Master of IT	66	57	72	29	20	178	58
MSc in Information Security	26	26	25	-	-	51	-
MSc Advanced Computing	-	-	-	-	12	12	07
PGD Advanced Computing	-	-	-	-	-	-	05
MSc Computer Science	-	-	-	-	20	20	04
PGD Computer Science	-	-	-	-	-	-	16
MSc IT	-	-	-	-	18	18	05
PGD IT	-	-	-	-	-	-	13
MSc Bioinformatics	12	12	-	-	-	12	-
<b>Taught PGD</b>	<b>172</b>	<b>155</b>	<b>177</b>	<b>60</b>	<b>89</b>	<b>481</b>	<b>156</b>
MPhil	10	10	13	05	14	42	03
<b>Total</b>	<b>182</b>	<b>165</b>	<b>190</b>	<b>65</b>	<b>103</b>	<b>523</b>	<b>159</b>

All courses are conducted in English Medium

### Masters Programmes

Each programme caters towards distinct categories of people.

The *Master of Information Technology* (MIT) is a programme targeted at graduates in disciplines other than computing who wish to pursue a career in an IT related area. This is also suitable for those who wish to specialize in a multidisciplinary field overlapping with IT such as Management, Networking or Multimedia technology.

The *Master of Computer Science* (MCS) programme is designed for CS/IT professionals who already possess a degree in Computing and who wish to acquire a postgraduate qualification in CS/IT with research exposure.

The *Master of Science in Information Security* (MSc IS) programme is designed for graduates who wish to acquire a postgraduate qualification in the area of Information Security. This programme offers mid-career opportunities for those working in the areas of information technology, information system audit and information security.

First year of the new two year masters programme in Information Security for 25 students was completed. Two ongoing master's programmes in Computer Science and Information Technology continued to enrol nearly 150 students. New master's programme in Bioinformatics was designed in collaboration with IBMBB of the University of Colombo.

### Awards

Kingslake award for the best student for Master of Computer Science Degree Programme was given to Ms.

T.L.O Jayatunge while JICA award for the best student for Master of Information Technology was awarded to Mr. G.G.K.P Gunawardana.

## External Degree & Extension Courses

BIT external degree programme enrolled 5,769 students while 528 followed the extension programmes.

BIT programme alone has attracted 27,148 since its inception. In 2012, 2031 new students joined the programme (Table 5). This was a reduction due to the delay in releasing the 2012 GCE (A/L) results. This year too BIT students were provided access to computing resources through NODES centres of the Ministry for a very nominal fee.

Table 5: External Degree Programme

Course	Intake 2012	1st Year Students	2nd Year Students	3rd Year Students	Total	No of Graduated
Diploma in Information Technology	2031	2811	1044	314	4169	654
Higher Diploma in IT	715	1358	501	531	2390	262
Bachelor of Information Technology	312	314	531	568	1413	172
<b>All</b>		<b>2811</b>	<b>1545</b>	<b>1413</b>	<b>5769</b>	

Table 6 highlights the performances of the BIT students over the last five years identifying number registered and graduated along with targets.

## DIT Registration

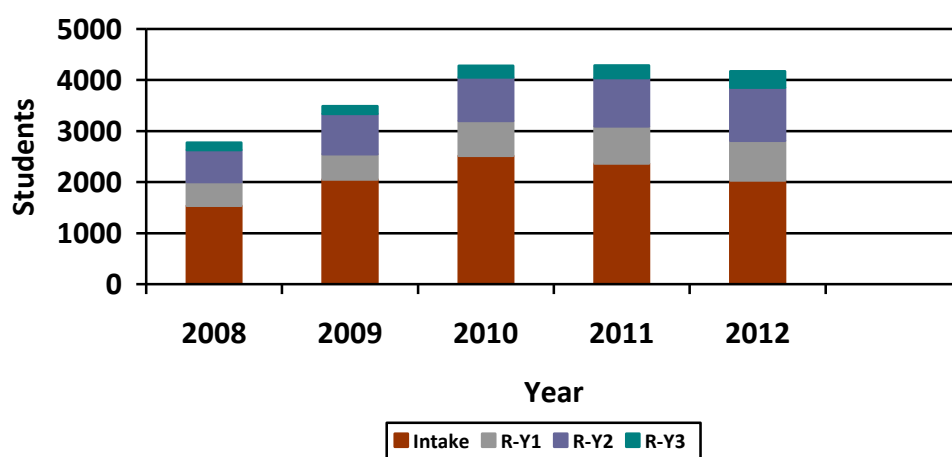


Table 6: External Degree Performance over last Five Years

External Undergraduates	KPI	2008	2009	2010	2011	2012
DIT - New Intake	<b>2000</b>	1540	2052	2514	2365	2031
DIT – Repeaters	-	1236	1438	1767	1922	2138
DIT – Diplomas	<b>600</b>	607	429	361	576	654
HDIT - Higher Diploma Intake	<b>600</b>	588	537	549	648	715
HDIT - Higher Diploma Registered	<b>2000</b>	1700	1749	1863	2019	2390
HDIT - Higher Diplomas	<b>300</b>	386	310	199	309	262
BIT - Degree Intake	<b>300</b>	236	258	228	279	312
BIT - Degree Registered	<b>1200</b>	1102	1126	1188	1293	1413
BIT – Graduates	<b>150</b>	138	161	140	129	172

Intake excludes repeaters

Note: 2008 (HDIT), 2009 (BIT) saw the introduction of GPA based evaluation system and a major curriculum revision under eBIT project. 2009 graduates benefitted from the relaxation of the requirement to pass all compulsory courses. 2011 introduced a minimum D grade for each course to fulfil the degree criteria.

## Graduation

Performance of those participated at the 2011 convocation held on 4<sup>th</sup> April 2012 is shown in Table 7. 129 graduates were conferred the degree at this Convocation. 98 (87%) were already employed and out of the 15 (13%) unemployed only 6 (5%) was looking for employment. 16 (12%) students didn't respond to the employability questionnaire.

Table 7: Those Graduated at the Convocation held in 2012

Intake	First	Upper	Lower	Pass	TOTAL
BIT	3	5	8	113	129

## Awards

Prof. VK Samaranayake Medal for the Best Performance at the Bachelor of Information Technology (External) Degree was awarded to Mr. S.P. Premaratne. Ms. Z.M. Nawfhal was awarded the best individual project award. Best e-Learner awards for the 4 semesters were awarded to H.N.C. Wijayawardhana (I), II not awarded, Mr. K.A.T. Jayalath (III) & Mr. W.A.M.L.B. Karunarathna (IV).

## Institutes

Many training institutes have offered face to face classes and learning support for the BIT candidates. Over 200 institutes have participated in this process with around 50 institutions in some academic years. UCSC do not accredit any of these institutions but have recognised their contributions for the success of the programme. Each year UCSC publish the summary of examination results for each course by institute so that the candidates can identify the available institutions and plan their learning mode. More than half the candidates study on their own with the help of the VLE and online/recommended material. In 2011/12, 33 institutions from 14 districts conducted training for five or more candidates. Among them 10 institutions were involved in all three years (marked \* in the Table 8).

Table 8: Institutes involved in the BIT Programme

District	Institute
Ampara	(1) Global Institute of Professional Education
Badulla	(1) Code J IT Services
Bandarawela	(1) Esoft Computer Studies
Batticaloa	(1) Esoft Computer Studies
Colombo	(1) *Earth International (2) EASL J Lanka Computer Training Institute (3) *Esoft Computer Studies (4) Foundation of IT Professionals (5) *IDM Computer Studies (6) *Matrix Institute of IT (7) *Openarc School of Business and Technology (8) Rotary Management Centre (9) *WideAwake Solutions



Galle	(1) Esoft Computer Studies
Gampaha	(1) *Earth International (2) Esoft Computer Studies, Gampaha (3) Esoft Computer Studies, Negombo (4) Urban College for Business and Technology
Jaffna	(1) BIT Corner (2) Esoft Computer Studies (3) MIS (4) *Mobile@Net Computer Services
Kandy	(1) *Esoft Computer Studies (2) IDM Computer Studies (3) Infortec International Institute (4) Matrix Institute of IT (5) National Institute of Co-operative Development
Kegalle	(1) Institute of Computer Studies
Kurunegala	(1) *Esoft Computer Studies
Matara	(1) Dbase School of Computing (2) *Esoft Computer Studies
Monaragala	(1) Global Institute of Professional Education
Ratnapura	(1) Esoft Computer Studies

UCSC also continued to offer over ten extension certificate courses attracting over 500 students. Table 9a identifies the details of the CSC courses (programmes) conducted by the UCSC.

Table 9a: CSC Training Programmes

Course	B	P
Advanced Java Application Development using J2EE	3	70
Advanced Multimedia Web Design and Development Techniques	3	61
Computer Aided Drafting Using AutoCAD 2008	2	68
Dynamic Web Development with PHP and MySQL	3	67
Embedded Systems Design & Development	2	23
Embedded Systems Workshop	1	27
Graphics Design and Creativity Development	1	11
JAVA Application Development	3	76
PHP & MySQL	1	12
Project Management Workshop	1	56
Unix Linux Fundamentals, Network & System Administration (C)	2	57
<b>TOTAL</b>	<b>22</b>	<b>528</b>

## FIT Programme

The Foundation in Information Technology (FIT) programme aims at enhancing the literacy and competency in using basic computer applications together with analytical thinking and communicational skills required for school leavers. It was introduced in 2008 and it is considered as an alternate qualification to enter the BIT degree programme. Most who do not have GCE (A/L) three passes take the FIT theory component to qualify for the BIT. FIT also include a practical component and 15 successfully completed during the year (Table 9b).

Table 9b: FIT Certification Programme

Certification	Registered	Pass	Qualified for BIT
FIT	618	15	312

## Foreign Students

To be accepted as a centre of excellence in the region it is important to attract foreign students. Although foreign student category to enrol students had been there for a while only students who have done their A/L elsewhere but with local connections have applied so far. During 2011 first student enrolled under the foreign student category for the CS degree programme and currently in year 2. He was a local who had studied overseas. Details of foreign student enrolment are given in Table 10. There were two foreign applicants for the postgraduate degree programme which is due to commence in early 2013.

Table 10: Foreign Students

Course	Medium	Intake 2011	1st Year Students	2nd Year Students	3rd Year Students	4th Year Students	No of Graduated
Computer Science	English	01	-	01	-	-	-

## New Courses Started

Enhancing ICT skills and Improving English Language Skills programmes were launched by the ministry through the HETC funding in 2011. UCSC was asked to evaluate them again in 2012/13 at all universities which commenced with pre-testing at two universities.

UCSC continued to hold e-Testing for selecting students for the BIT programme and also implemented similar testing environment for the Institute of Chartered Accountants (ICA) students. Information of the new courses commenced is given in Table 11.

Table 11: New Courses

Course	Medium	Certificate	Diploma	Postgraduate Diploma	Master	M.Phil	Ph.D
Online IT & English	English	2	-	-	1	-	-

## RESEARCH

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### Research, Innovation and Publications

Research is carried out under different research groups and through research students. UCSC admits graduates with good first degree results in Computer Science/Engineering for its full/part time (FT/PT) MPhil programme mainly centred on research projects in progress. 10 new students registered during the year and one evaluation was held. Currently there are 41 MPhil students and 1 PhD student doing research degrees under 16 senior academics of the UCSC (Table 12). Nine MPhil students had publications during the year and three successfully defended their thesis.

Table 12: Postgraduate Students

Students	FT	PT	Total	New
TOTAL	21	21	42	10

To promote research at the UCSC a research fund was established with utilisation guidelines in 2009. Since the initial contribution of 4 million from the masters and BIT this fund has continued to grow through generated funds and it now stands at 25.8 million. Senior staff could annually utilise up to 250,000 rupees to participate at research meetings and publish research in international conferences and journals. This increased annual UCSC publications from 30s to 60s. Among the years publications 52 were conference papers held in 16 countries. 27 (80%) academic staff published research papers and 10 international researchers co-authored eight collaborative research publications. Table 13 gives the details of the publications.

Prof. Robert Ramberg, Stockholm University visited UCSC under HETC project to supervise a research student. Peter Mozelius, Stockholm University also came during the same period to evaluate the current status and impact of the one laptop per child project. Lecture from Prof. Anantharaman from Chennai was held for the undergraduates. Two persons from National University of Singapore visited UCSC to talk to students about postgraduates at NUS. Prof. Abu Asaduzzaman of Wichita State University, US made a presentation on his CAPPLab research activities to staff and students.

Table 13: Research Summary

Subject	Published	Commercialized	Presented
No of Researches	103	-	52
No of Innovations	-	-	-
No of Journals	5	-	-
No of Books	-	-	-
No of Articles	53	-	-
Other	1	-	-
<b>Total</b>	<b>59</b>	<b>-</b>	<b>52</b>

## Conferences, Seminars & Workshops

Setting up mechanisms for identifying & carrying out relevant research is another strategy of the UCSC. Organising the annual UCSC Research Symposium for Final Year undergraduates was continued. A Research Day to disseminate research carried out by staff was introduced this year with the participation of the overseas external examiner. UCSC also continued to publish two online issues and one printed issue of the ICTer Journal. Organize International IT Conference for Emerging Regions workshops at UCSC. UCSC also revised mechanism for utilizing Research Fund by all academics to encourage further involvement in research.

UCSC successfully held the annual Prof. V.K. Samaranayake oration at the UCSC where Prof. J.B. Disanayake was the orator. UCSC also advertised to attract the first visiting professor under the Prof. V.K. Samaranayake endowment fund. Details of the conferences, seminars and workshops are given in Table 14.

Table 14: Conferences, Seminars and Workshops

Subject	Participated	Published	Presented
Senior Academics local conferences	20	3	0
Senior Academics International conferences	19	57	9
UCSC Symposium (abstracts)	85	17	15
Organized International Conference (ICTer)	223	37	51
ICTer Journal	7	2	0
<b>Total</b>	<b>354</b>	<b>116</b>	<b>75</b>

## Awards Received

The e-Swabhimani is an initiative of the ICTA of Sri Lanka aimed at recognizing excellence in digital content creation. Since 2010 UCSC students have been participating and winning awards. In 2012 UCSC students won the e-Science and Technology category for the “Facial Muscle Anatomy based approach for Forensic Facial Reconstruction in Sri Lanka” a standard alone system in English produced by 4th year ICT students of the UCSC, namely: Roshan Rajapakse, A.K. Madugalla, P.I.U. Amarasinghe & V.H. Padmathilake together with the Department of Forensic Medicine, University of Sri Jayewardenepura under the supervision of Dr. A.T. Dharmaratne & Mr. K.D. Sandaruwan. UCSC also won another award under e-Science and Technology category for the “Field Artillery Simulation System (FASS)” a standard alone system in English produced by Staff together with the Centre for Research and Development, Ministry of Defense, School of Artillery. Two certificate of appreciation was also awarded in the eLearning and Education category for the “ICT based Education for students with Special Educational needs” an offline system in Sinhala produced by 4th year ICT students of the UCSC, namely: M.D. Nadira Tharanga Perera, T.G. Induni Shamika, Dilrukshi Wijeratne and D.P. Manori Madhubhashini Wijesooriya under the supervision of Dr. A.T. Dharmaratne & Dr. A.R. Weerasinghe; and the 2012 e-Entertainment and Games category “Saasthara a Facebook apps” in Sinhala produced by 2nd year students of the UCSC, namely: K.H. Madusha Kumarasiri & S.M.D.R. Subasinghe.

Mr. K D Sandaruwan was awarded the Hiran Tillekeratne Research Fund 2011 Award for Outstanding Postgraduate Research in Information Technology based on his postgraduate research work carried out during the 2009-2011. ICTA recognised the contributions made by Dr Ruvan Weerasinghe and Mr. Harsha Wijewardena for the development of Local Languages. The University of Colombo Research Award (UCSC) - 2011 was awarded to Dr. K.P. Hewagamage of the UCSC. Summary of the awards is listed in Table 15.

Table 15: Research Awards

Subject	No of Awards	No of Academics	No of Students
Local Awards	1	-	-
National Awards	2	3	4
International Awards	-	-	-
Other	3	-	-
<b>Total</b>	<b>6</b>	<b>3</b>	<b>4</b>

## Academic Staff

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During the year Information Systems Manager post was filled after eight years. One academic returned after completing his PhD. Administrator who went on sabbatical resigned and well as the Programmer-cum-Systems Analyst. Two computer application assistant posts and a receptionist post were filled during the year. However vacancies exist for nearly half the carder positions. Retaining trained technical personal and attracting good young academics were extremely difficult due to better prospects in the private sector. Beside the permanent staff to carry out daily activities UCSC rely on visiting staff to deliver some of their programmes.

In order to attract international human resources short term visiting researchers from Australia, Sweden and India was hosted during the year. UCSC also continued with the staff exchange programme under Linnaeus Palme Project with Umea University, Sweden and Swedish staff member successfully conducted a course in Colombo. Dr Erik Billing of Dept. of Computer Science, Umea University Sweden visited under the

Linnaeus Palme programme. He conducted some undergraduate and postgraduate classes during his stay in June-July.

Details of the UCSC academic staff is given in Table 16. It is noted that 1 Professor (Chair), 18 Lecturer/Senior Lecturer, 5 Scientific Assistants and 11 Temporary Instructor vacancies exist at the UCSC as industry starting salaries for similar qualification is above three to four times the current salary scale. Filling the scientific assistants was not possible as it was on hold by the UGC.

Table 16: Staff Research Areas

Subjects	Medium	Senior Professor	Professor	Senior Lecturer	Lecturer	Asst Lecturer	Instructor	TOTAL
<b>Carder</b>	-	-	<b>01</b>	-	<b>58</b>	-	<b>27#</b>	<b>86</b>
Computing (P)	English	-	02	18	15*	-	04	39
Computing (C)	English	-	-	-	01	04	07	12
<b>Vacancies</b>	-	-	<b>01</b>	-	<b>18</b>	-	<b>16</b>	<b>35</b>

\*06 on leave; #include 18 Temporary Instructors and 05 Scientific Assistants

### Non-Academic Staff: Permanent (P) Contract/Assignment (C/A)

Efforts were put into the development and implementation of management and strategic information system. Outcome was not encouraging due to less involvement by the potential users. Implementation work of the ongoing Examination Processing System was affected due to the resignation of the programmer-cum-systems analyst and no-replacement found yet due to existing low salary scales in the university system. Online payment facility for external and extension programmes and postgraduate programmes continued.

Details of the UCSC non-academic staff is given in Table 17. Although carder for over 100 Non-Academic and Project staff were approved UCSC only 35 permanent position have been fill and the most of the work is carry out by contract and assignment staff. Resignation of the deputy registrar also affected the progress of the institute.

University of Colombo recognised 3 UCSC staff members, Mr. K.S. Goonathilake, Mr. R.M. Weerasiri and Mrs Asoka Rajapaksha for completing 25 years of service.

Table 17: Non-Academic Staff

Type	Most Senior (Admin)	Senior Staff	Junior Staff	Minor Employees	Project Staff	TOTAL
<b>Carder</b>						
P	5	4	18	7	-	34
C	1	4	19	14	21	59
A	2	-	6	-	10	18
<b>Vacancies</b>						<b>90</b>

### Staff Training and Overseas Leave

Training leave: Two academic staff participated at training programmes held overseas.

Dr. TNK De Zoysa (India), Mr. WMR Weerasuriya (Malaysia)

Ten academic staff participated at conference overseas involving 12 visits.

Dr. DAS Atukorale (Singapore), Dr. HA Caldera (Thailand), Dr. (Ms.) Y Ekanayake (Spain), Mr.

MGNAS Fernando (Spain), Dr. (Ms.) MDJS Goonetilleke (Australia), Dr. KP Hewagamage (Japan), Dr. CI Keppetiyagama (China), Prof. ND Kodikara (Indonesia), Dr. DN Ranasinghe (Singapore), Dr. AR Weerasinghe (India, UK), Prof. GN Wikramanayake (India twice), Dr. GDSP Wimalaratne (Thailand).

Two academics went on study leave of which one assumed duties subsequently. Five academics continued to be on study leave while other returned after PhD.

New: Mr. HM Siriwardana (Japan), Mr. SSP Matharaarachchi (Sri Lanka) [assumed]  
Continued: Mr. HEMHB Ekanayake (Sweden), Ms. LNC De Silva (Sri Lanka), Ms. FHAM Premachandra (Australia), Ms. TA Weerasinghe (Sweden), Mr. MIE Wickramasinghe (Malaysia)  
Returned: Dr. TMHA Usoof (Sweden)

Other: Ten staff members including two non-academics involving 13 visits had overseas for other reasons.  
Dr. TNK De Zoysa (Korea), Dr. AT Dharmaratne (Sweden), Mr. KS Goonathilake (India), Mr. DN Gunawardena (India), Dr. KP Hewagamage (Bhutan, India, Japan), Mr. RS Madanayake (Bhutan), Mr. GP Seneviratne (UAE), Ms. KPC Rathnalatha (India), Dr. AR Weerasinghe (Pakistan), Prof. GN Wikramanayake (Australia, Brunei).

## FINANCE

### Recurrent Expenditure

UCSC contributes towards the day to day operations using generated income as treasury funds are inadequate to carry out the undergraduate activities. Cost per undergraduate student is 149,000. UCSC contributed 27 million for the internal undergraduate programme which was 16% of its generated income. Breakdown of recurrent expenditure is given in Table 18.

Table 18: Recurrent Expenditure Rs. 000'

Subject	2010	2011	2012
Personal emoluments	68,015	79,931	92,840
Travelling	484	1,132	528
Supplies	3,895	4,227	4,579
Maintenance	2,906	3,627	3,057
Contractual Services	23,453	26,675	29,701
Other	54,672	56,915	57,357
<b>Total</b>	<b>153,425</b>	<b>172,507</b>	<b>188,062</b>
Government Allocation	65,381	83,102	91,802

### Capital Expenditure

UCSC invested in physical resources to improve its computing and office facilities. Also construction work of the building extension continued during the year including utilisation of the newly constructed 4<sup>th</sup> floor extension of the East Wing. Computers at finance & admin branches were replaced with new computers. Printers, printers with scanning, firewall, network switches purchased were purchased to improve IT facilities. Heavy duty printer, booklet maker and collating machine purchased to meet the heavy printing loads of the institute. Details of capital expenditure are given in Table 19.

Table 19: Capital Expenditure Rs. 000'

Subject	2010	2011	2012
Acquisition of furniture & Office Equipments	6,043	2,656	14,604

Acquisition of Machineries	-	-	-
Acquisition of Building & Structures	-	15,420	22,327
Other	15,257	10,099	4,076
<b>Total</b>	<b>21,300</b>	<b>28,175</b>	<b>41,007</b>
Government Allocation	3,420	16,000	19,150

## Projects (Local/Foreign Funded)

Beside research based projects UCSC carry out consultancy services to public and private sector. UCSC is well known for some of its work in the past. UCSC has assisted with the National Elections since 1981. Birth Marriage certificates are now issued over the counter using UCSC software. Sinhala language is supported in modern computers due to the efforts of UCSC through the design and development of Sinhala Unicode. Implementation of a university student selection and allocation system for the UGC was one of the major development activities carried out by the UCSC. This will significantly reduce the time taken for university admissions as well as the accuracy of the process adopted. UCSC also continued to carrying out Digital Forensic activities to assist court cases.

While maintaining strategic partnerships with key stakeholders the UCSC continued implementation of e-Government projects in the country and commenced new projects with HETC and Government Ministries. UCSC was successful in the HETC Window 4 - Research Dissemination and Commercialization of Research Projects and Innovations proposal. Work on the HETC EDP commenced with all planned activities held during the year. UCSC, through Theekshana secured another Royal University of Bhutan assignment and successfully trained their staff to develop e-learning content through World Bank funding. Theekshana, a UCSC owned company generated nearly Rs. 22 million of which over Rs. 4 million was in foreign exchange securing single source projects from World Bank funded projects of ICTA and HETC.

UCSC has a strong research group in several disciplines. Modelling & Simulation, e-Learning and Language Technology are among those that have reached the user community. Ongoing research projects included M-ATM, FASS and Copsayura. Details of the UCSC research projects carried out and their expenditure are listed Tables 20 and 21.

Table 20: Recurrent Expenditure

Rs. 000'

Name & Detail	Grant	Funding Agency	TCE	RFA	DF
M-ATM (2008-11)	7,596	Royal Inst. of Tech.(KTH), Sweden			
Tele centre.Org (2010-11)	2,856	Telecentre Foundation, Philippines			
<b>Foreign Funds</b>	<b>10,452</b>				
FASS (2011-2012)	1,308	Ministry of Defence, Sri Lanka			
Copsayura (2011-13)	1,934	National Science Foundation			
<b>Local Funds</b>	<b>3,242</b>				

TCE – Total Cost Estimated; RFA – Request for Applications; DF – Discount Factor

## Project Expenditure (Local/Foreign Funded)

Rs. 000'

Table 21: Project Expenditure

Name	TCE B/F Accu. Cost	Exp in 2011	Exp in 2012	Cumulative Exp as at 31.12.2012	% of Physical Progress
M-ATM	4,878	787	697	6,362	84%
Tele centre.Org	1,828	562	168	2,558	90%
<b>Foreign Project Exp</b>	<b>6,706</b>	<b>1,349</b>	<b>865</b>	<b>8,920</b>	

FASS	-	40	970	1,010	77%
NSF	-	-	1,709	1,709	88%
<b>Local Project Exp</b>	-	<b>40</b>	<b>2,679</b>	<b>2,719</b>	

## Financial Progress (Expenditure)

Table 22: Financial Progress (Expenditure) Rs. 000'

Subject	Provision	Exp	Savings/Excess
Recurrent except Project	190,370	172,507	17,863
Capital except Project	84,425	28,175	59,250
Project - Local funded	2,679	2,679	-
Project – Foreign funded	865	865	-
<b>Total</b>	<b>278,339</b>	<b>204,226</b>	<b>74,113</b>

## Financial Progress (Generated Income)

Table 23: Financial Progress (Generated Income) Rs. 000'

Source of Revenue	Provision	Collection	Deficit / Surplus
Undergraduate Studies	96,366	94,494	1,872
Postgraduate Studies	55,881	67,170	(11,289)
Consultancies	28,974	21,210	7,764
External Degree	65,308	69,823	(4,515)
Other	-	-	-
<b>Total</b>	<b>246,529</b>	<b>252,697</b>	<b>(6,168)</b>

Excluding the Undergraduate income UCSC earned 195,000. Generated income of the UCSC was much higher than most universities and higher education institutes, including its main university.

## Financial Performance Analysis

Table 24: Financial Performance Analysis Rs. 000'

Subject	Formula	Exp. per Student
Recurrent Expenditure per Student (RE)	RE / No of Student strength	149
Capital Expenditure per Student (CE)	CE / No of Student strength	42
<b>Total</b>		<b>191</b>

## Infrastructure Facilities

UCSC operate with limited space with inadequate space to conduct lectures. Students do not have adequate space in the canteen, common and study rooms. As the university was unable to provide land UCSC commenced Build West wing and fourth floor extensions to meet shortage in undergraduate classrooms and to accommodate fulltime research students. During the year East Wing lecture hall was completed and handed over for student use.

While meeting the short term infrastructure needs expansion plans were designed to meet medium and long term goals. Construction of a canteen and administrative building at the current canteen location was



identified along with replacing the existing auditorium with lecture halls/study rooms cum auditorium were among the medium term goals. Requirement to set up buildings outside the University of Colombo was also identified as long term goals. Details of the building work are given in Table 25.

Table 25: Infrastructure Rs. 000'

Infrastructure Details	Expenditure (Rs)	Physical Progress
UCSC Building Extension	22,328	96%

### Any Other Details / Performance Relevant to this Report

To enhance visibility locally and internationally monthly print media coverage of UCSC activities was maintained along with redesigning of the UCSC web site to improve presence.

UCSC considers taking IT education and products to the periphery is one of their social responsibilities. During the year UCSC partnered with Rupavahini Corporation to introduce educational programme for A/L students. UCSC also continued community interface through SLBC Radio programme conducted every Wednesday morning from 9 to 10. UCSC also assist Ministry of Education and Schools in conducting Software Competitions including the International Olympiad in Informatics. UCSC Digital Torana was displayed as part of the vesak festival for the 3<sup>rd</sup> occasion.

UCSC provided real opportunities for students to exercise social responsibility both within and outside the university. Several workshops were organised by the students. Over 180 staff and family joined the UCSC Annual Welfare Trip which was to Arugam Bay. UCSC continued with the staff medical insurance scheme.

### UCSC comments on the 2011 COPE Meeting

47<sup>th</sup> COPE meeting held on 20<sup>th</sup> July 2012 discussed the matters referred to in the Auditor-General's Report for years 2009 and 2010 along with the performance and current affairs of the UCSC. Actions taken with current status for the items listed in the 47<sup>th</sup> COPE minutes are given below.

(1) Action Plan

Responsible person for each goal was included in the 2013 Action Plan. Corporate plan of 2013-2017 was based on the original prepared in 2008. Since Five years had been completed since then, a fresh Corporate plan including Action Plan have been developed for the period from 2014-2018 as per the Guideline given by the General Treasury was prepared during the latter part of 2013.

(2) Staff

Attempts were made to fill vacancies. Although some of them were filled there weren't adequate qualified applicants to fill all positions. For instance 19 lecturer and 16 instructor vacancies as industry starting salaries are three to four times. Five vacancies were filled during the year for the posts of Deputy Bursar, Information Systems Manager, Two Computer Application Assistants (CAA) and Telephone Operator cum Receptionist. However Senior Assistant Registrar (SAR) and CAA transfers, and SAR retirements as well as resignations from Deputy Registrar and Programmer-cum-Systems Analyst took place subsequently. Contract and assignment staff recruited to carry out projects, external degree activities and software development unit are part of the temporary staff recruited against UGC approved carder.

(3) Presentation of Annual Report in Parliament

Annual Reports were tabled in parliament as mentioned bellow.

<u>Year</u>	<u>Date of Handing over to Parliament</u>
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2010	On 20 <sup>th</sup> of February 2013
2011	On 10 <sup>th</sup> of July 2013
2012	Submitted to MoHE and taken for discussion on 2 <sup>nd</sup> January 2014. Expected date of submission February 2014.

- (4) The balance IT grant fully utilized in 2012. SIDA projects were completed and the balance amount was returned back to SIDA.
- (5) Board of Survey reports of 2009-2011 had not been submitted by the assign teams as they had not been able to identify all the ideas. Hence the 2012 Board of Survey completed with the help of an outside organization and reconciling their unidentified list was given to a separate committee. 2013 Board of survey commenced is expected to be completed by January 2014.
- (6) Legal action has already been taken to recover bond value and outstanding loan balances from their UPF balance.
- (7) Action has already been taken to recover outstanding Distress Loan & Festival Advances from their UPF balances.
- (8) The said two probationary teachers had completed their PhD and returned back to Sri Lanka.
- (9) We have made requests to General Treasury for investment of Generated funds but no response is received.